

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>PHUS020529W0</b>	<b>FOR FURTHER ACTION</b>		see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. <b>PCT/IB 03/05596</b>	International filing date (day/month/year) <b>03/12/2003</b>	(Earliest) Priority Date (day/month/year) <b>09/12/2002</b>	
Applicant  <b>KONINKLIJKE PHILIPS ELECTRONICS N.V.</b>			

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

### 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

**SYSTEM AND METHOD FOR USING A SCHEDULER BASED ON VIRTUAL FRAMES**

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

1 \_\_\_\_\_  
☐ None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/05596

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 H04L12/28

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>SHANKAR S ET AL: "QOS SIGNALING FOR            PARAMETERIZED TRAFFIC IN IEEE 802.11E            WIRELESS LANS", LECTURE NOTES IN COMPUTER            SCIENCE, SPRINGER VERLAG, NEW YORK, NY,            US, VOL. 2402, PAGE(S) 67-83 XP001188291            ISSN: 0302-9743            abstract            page 68, line 8 -page 69, line 10            page 74, line 3 - line 12            page 74, line 34 -page 76, line 3            page 77, line 34 -page 78, line 13            page 79, line 29 -page 82, line 33            figures 2,3,5</p> <p style="text-align: center;">---</p> <p style="text-align: center;">-/--</p>	1-12

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

23 June 2004

Date of mailing of the international search report

05/07/2004

Name and mailing address of the ISA

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/05596

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>GRILO A ET AL: "Performance evaluation of IEEE 802.11E"  IEEE PIMRC 2002,  vol. 1, 15 September 2002 (2002-09-15),  pages 511-517, XP010614277  abstract  page 512, right-hand column, line 13 - line 41  page 513, right-hand column, line 2 -page 514, left-hand column, line 31  page 517, left-hand column, line 14 - line 30  figures 3,4</p> <p>---</p>	1-12
A	<p>US 2002/089994 A1 (FISCHER MICHAEL A ET AL) 11 July 2002 (2002-07-11)  page 1, paragraph 2  page 2, paragraph 11 -page 3, paragraph 14  page 4, paragraph 25 -page 5, paragraph 27  page 6, paragraph 48 - paragraph 50  page 11, paragraph 75 - paragraph 77  page 16, paragraph 107 -page 17, paragraph 107  figures 1,2</p> <p>---</p>	1-12
A	<p>EP 1 237 334 A (SHARP KK)  4 September 2002 (2002-09-04)  page 4, line 15 -page 6, line 39  figure 2</p> <p>---</p>	1-12
A	<p>EP 1 193 909 A (SHARP KK)  3 April 2002 (2002-04-03)  column 5, line 9 -column 7, line 26  figures 4,5A,5B</p> <p>---</p>	1-12
P,X	<p>WO 03/043266 A (KONINKL PHILIPS ELECTRONICS NV) 22 May 2003 (2003-05-22)  page 3, line 8 -page 4, line 6  page 6, line 27 - line 33  page 13, line 16 - line 23  page 14, line 5 -page 15, line 2  page 17, line 9 -page 26, line 31  figures 1,4,11-15</p> <p>---</p>	1-12
E	<p>WO 2004/036838 A (KONINKL PHILIPS ELECTRONICS NV ;SOOMRO AMJAD (US); DEL PRADO PAVON) 29 April 2004 (2004-04-29)  page 1, line 6 - line 9  page 2, line 14 -page 7, line 20  page 11, line 1 - line 16  figures 1,4-6</p> <p>---</p>	1-12
	<p>---</p> <p>-/--</p>	

## INTERNATIONAL SEARCH REPORT

International Application No

IB 03/05596

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>CHOI S, SHIN K: "A Unified Wireless LAN Architecture for Real-Time and Non-Real-Time Communication Services" IEEE/ACM TRANSACTIONS ON NETWORKING, 'Online! vol. 8, no. 1, February 2000 (2000-02), page 44-59 XP002282297 Retrieved from the Internet: &lt;URL:http://portal.acm.org/citation.cfm?id=332996&amp;dl=ACM&amp;coll=portal&gt; 'retrieved on 2004-05-27! cited in the application page 46, paragraph III -page 51, paragraph IV.A page 57, paragraph VI -page 58, paragraph VI -----</p>	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

IB 03/05596

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002089994	A1	11-07-2002	WO 02056553 A2	18-07-2002
			WO 02056539 A2	18-07-2002
			WO 02056544 A2	18-07-2002
			US 2002089927 A1	11-07-2002
			US 2002089959 A1	11-07-2002
EP 1237334	A	04-09-2002	US 2002159418 A1	31-10-2002
			EP 1237334 A2	04-09-2002
			JP 2002314546 A	25-10-2002
			US 2002163928 A1	07-11-2002
EP 1193909	A	03-04-2002	US 2002143982 A1	03-10-2002
			EP 1193909 A2	03-04-2002
			JP 2002158676 A	31-05-2002
WO 03043266	A	22-05-2003	US 2003093526 A1	15-05-2003
			WO 03043266 A1	22-05-2003
WO 2004036838	A	29-04-2004	WO 2004036838 A2	29-04-2004